



A-71983/AJT/TJH

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CERTIFICATE OF MAILING (37 CFR 1.8(a))

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Signature: _____

Laura Lee Mosier

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Pavel I. LAZAREV et al.

Application No. 10/643,257

Filed: August 18, 2003

For: Backlight Polar Organic Light-Emitting Device

Art Unit: To be assigned

Examiner: To be assigned

Date: January 20, 2004

**INFORMATION DISCLOSURE STATEMENT SUBMITTED
PRIOR TO THE FIRST OFFICIAL ACTION**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicant submits herewith publications which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. §1.56. While this Statement may be "material" pursuant to 37 C.F.R. §1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is "prior art" for this invention unless specifically designated as such. A listing of patents and publications is shown on enclosed Forms PTO/SB/8A and PTO/SB/8B, and a copy of each patent and publication is also enclosed.

This information disclosure statement is being filed in compliance with 37 CFR 1.97(b)(3) as being filed before the mailing date of the first office action on the merits.

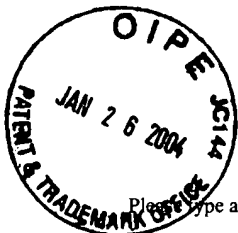
Respectfully submitted,

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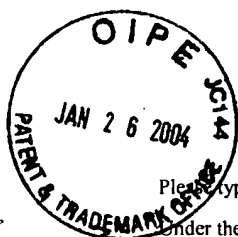
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known				
				Application Number	10/643,257			
				Filing Date	August 18, 2003			
				First Named Inventor	Pavel I. LAZAREV			
				Group Art Unit	Not yet assigned			
				Examiner Name	Not yet assigned			
				Attorney Docket Number	A-71983/AJT/TJH			
Sheet 1 of 3								
U.S. PATENT DOCUMENTS								
Examiner Initials*	Cite No. 1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		Number	Kind Code ² (if known)					
		4,016,331		Garito et al.	04/05/1977			
		4,940,854		Debe	07/10/1990			
		5,176,786		Debe	01/05/1993			
		5,646,284		Usuki et al.	07/08/1997			
		5,656,751		Tanaka et al.	08/12/1997			
		5,710,273		Usuki et al.	01/20/1998			
		5,739,296		Gvon et al.	04/14/1998			
		5,885,498		Matsuo et al.	03/23/1999			
		5,998,803		Forrest et al.	12/07/1999			
		6,049,428		Khan et al.	04/11/2000			
FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. 1	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ² (if known)				
		EP	0 352 931	B1	Minnesota Mining & Mfg	10/20/1993		
Examiner Signature					Date Considered			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

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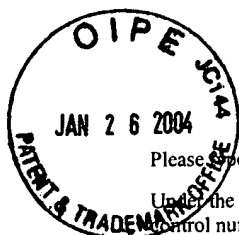
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				Examiner Name	Not yet assigned
Sheet	2	of	3	Attorney Docket Number	A-71983/AJT/TJH
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
		Ashida, Michio et al., "Unit Cell Metastable-form Constants of Various Phthalocyanines", <i>Bull. Chem. Soc. Jpn.</i> , Vol. 39, No. 12 (1966), pp. 2616-2624.			
		Ashida, Michio, "The Orientation Overgrowth of Metal-phthalocyanines on the Surface of Single Crystals. I. Vacuum-condensed Films on Muscovite, II. Vacuum-condensed Films of Copper-phthalocyanine on Alkali Halides", <i>Bull. Chem. Soc. Jpn.</i> , Vol. 39, No. 12 (1966), pp. 2625-2631, 2632-2638.			
		Ashida, M. et al., "Thermal Transformation of Vacuum Condensed Thin Films of Copper-Phthalocyanine", <i>J. Crystal Growth</i> , 8 (1971), pp. 45-56.			
		Bobrov, Y., "Spectral properties of thin crystal film polarizers", <i>Molecular Materials</i> , Vol. 14, No. 3 (2001), pp. 191-203.			
		Fryer, J. R., "Molecular Images of Thin-Film Polymorphs and Phase Transformations in Metal-Free Phthalocyanine", <i>Acta Cryst.</i> , A35 (1979), pp. 327-332.			
		Gu, G., "Transparent organic light emitting devices", <i>Appl. Phys. Lett.</i> 68 (19), 6 May 1996, pp. 2606-2608.			
		Kepler, R. G. et al., "Electron and hole mobility in tris(8-hydroxyquinolinolato-N1,O8) aluminum", <i>Appl. Phys. Lett.</i> , Vol. 66, 26 June 1995, pp. 3618-3620.			
		Lazarev, P., et al., "X-ray Diffraction by Large Area Organic Crystalline Nano-films", <i>Molecular Materials</i> , Vol. 14, No. 4, 2001, pp. 303-311.			
		McPherson, Alexander et al., "Facilitation of the Growth of Protein Crystals by Heterogeneous/Epitaxial Nucleation", <i>J. Cryst. Growth</i> , Vol. 85, 1988, pp. 206-214.			
		Morrison and Boyd, "Organic Chemistry", Third Edition, Allyn and Bacon, Inc. (Boston, 1974); (Book. Not enclosed.)			
		Murata, Y. et al., "Molecular image of copper phthalocyanine", <i>J. Microsc.</i> , Vol. 108, Pt. 3, December 1976, pp. 261-275.			
Examiner Signature				Date Considered	

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Sheet	3	of	3	Attorney Docket Number	A-71983/AJT/TJH
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
		Qiu, Chenfeng et al., "Dependence of the Current and Power Efficiencies of Organic Light-Emitting Diode on the Thickness of the Constituent Organic Layers", <i>IEEE Trans. Electron Devices</i> , Vol. 48, No. 9, September 2001, pp. 2131-2137.			
		Qiu, C.F. et al., "Room-temperature ultraviolet emission from an organic light-emitting diode", <i>Appl. Phys. Lett.</i> , Vol. 79, No. 14, 1 October 2001, pp. 2276-2278.			
		Saijo, H. et al., "Epitaxial growth of a new polymorph of Cu-phthalocyanine on graphite". <i>J. Crystal Growth</i> , Vol. 40 (1977), pp. 118-124.			
		Saito, Yoshio et al., "Molecular energetics of the epitaxial growth of chlorinated copper phthalocyanine on KCl surfaces", <i>J. Crystal Growth</i> , Vol. 67 (1984), pp. 91-96.			
		Saito, Yoshio et al., "Epitaxial growth mechanism of chlorinated copper phthalocyanine on KCl surfaces", <i>Appl. Surf. Sci.</i> , 22/23 (1985), pp. 574-581.			
		Tang, C. W. et al., "Organic electroluminescent diodes", <i>Appl. Phys. Lett.</i> , Vol. 51, No. 12, 12 September 1987, pp. 913-915.			
		Uyeda, Natsu et al., "Molecular image resolution in electron microscopy", <i>J. App. Phys.</i> , Vol. 43, No. 12, December 1972, pp. 5181-5189.			
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